

* SWBAT use conservation of energy to calculate launch speed

Sep 6-2:31 PM

Welcome!!!

H. Leslie Grebe

- * Pick up:
 - slip of paper (for later)

Opening Questions:

If you jumped as high as you could, what kind of stuff do you think we would need to measure to know how fast you were going as you left the floor?

SECA Physics
Wednesday 18 November 2015



Centering...

Sep 7-7:04 AM

Catchy Physics Phrases:

Work is when: A FORCE CAUSE A DISPLACEMENT

Energy is: ABILITY TO DO WORK

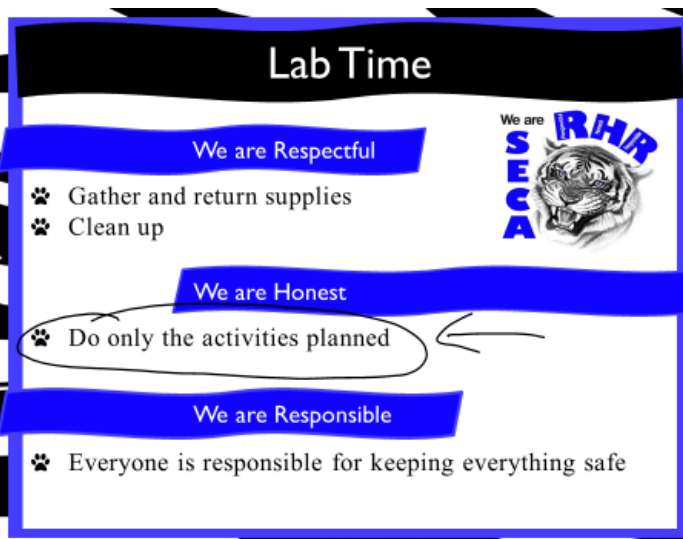
Work is how something's energy changes! JOULES

Popper Activity:

- * Measure team members' heights in meters
- * Measure the height the popper goes 5-10 times
- * Take the average
- * Complete the fill-in-the-blank and math on the back

Who is doing book work in another room?

Nov 30-8:00 AM



Lab Time

We are Respectful

- Gather and return supplies
- Clean up

We are Honest

- Do only the activities planned

We are Responsible

- Everyone is responsible for keeping everything safe

We are SECA

LEAVING THE SECA AREA

RESPECTFUL

- WATCHING OUT FOR OTHER PEOPLE
- SHARING THE SPACE

HONEST

- STAYING WITH GROUP / IN ASSIGNED AREA

RESPONSIBLE

- LISTENING TO INSTRUCTIONS
- MAXIMIZE LEARNING TIME

Nov 25-7:47 AM

What did we find?

AVG HEIGHT?

GPE_{top}: 0.3J
KE_{top}: 0

]_{TOTAL}: 0.3J

↓
CONSERVATION
↓

GPE_{bot}: 0
KE_{bot}: 0.3J

]_{TOTAL}: 0.3J

$$V = \sqrt{\frac{2 \cdot KE}{m}} = 5.5 \text{ m/s}$$

Apr 25-7:54 AM

Daily 3 Questions

- * Every day except test/project days
- * 3 Questions on the topics of the day
- * Main source of daily points
- * I am happy to give credit when I have no concerns about someone giving or getting help with the answers.

You can't get your points if you don't have your **NAME!!!**

Name	Period
1.	
2.	
3.	

Sep 9-7:32 AM

1. What was the **AVERAGE height** for your (team's) popper?

1.22 , 1.50 m

2. How much **KINETIC** energy (KE) did your popper have at the **top** (peak)?

0 J

3. How does the **total** energy compare between the top and the bottom?

a) more at top

b) more at bottom

c) same at top and bottom

Dec 2-7:55 AM